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PRODUCT INFORMATION BULLETIN

SURFLAN® 75W FOR PREEMERGENCE WEED CONTROL IN BEARING FRUIT AND NUT ORCHARDS AND BEARING VINEYARDS

SURFLAN applied as a preemergence herbicide controls many annual grasses and broadleaf weeds in several bearing fruit and nut orchards and bearing vineyards. It is recommended on the following:

Almond
Apple
Apricot
Avocado
Caneberries
Sweet Cherry
Fig
Grape
Grapefruit
Kiwi
Lemon

Nectarine
Olive
Orange
Peach
Pear
Pecan
Pistachio
Plum
Pomegranate
Prune
Walnut

Grasses and broadleaf weeds controlled are:

Grasses

Barley, little
Barnyardgrass
Bluegrass, annual
Brachiaria (signalgrass)
Crabgrass, large
Crabgrass, smooth
Creepinggrass
Cypergrass, southwest
Foxtail, giant
Foxtail, green
Foxtail, robust
Foxtail, yellow
Goosegrass
Johnsongrass (from seed)
Junglegrass
Lovegrass, Mexican
Lovegrass, orcutt
Nuts, wild
Panicum, bountop
Panicum, fall
Panicum, Texas
Sandbur, field
Sprangletop, red
Witchgrass

Broadleaf Weeds

Carpetweed
Chickweed, common
Fiddleneck, coast
Filaree, redstem
Filaree, whitestem
Groundsel, common
Henbit
Knotweed, prostrate
Lambquarters, common
Pigweed, prostrate
Pigweed, redroot
Pigweed, rough
Pigweed, smooth
Pigweed, spiny
Pigweed, tumble
Puncturevine
Purslane, common
Pusley, Florida
Rocket, London
Rockpurslane, redmaids
Shepherdspurse
Spurge, prostrate

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Black nightshade, common ragweed, lady's thumb, morning glory, smartweed, teucrium (prickly sida), velvetleaf, Italian ryegrass, horseweed, prickly lettuce, common mallow, black mustard, wild mustard, annual sowthistle, and climbing milkweed -- Control of these weeds may be erratic, ranging from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil, amount and timing of soil moisture.

Soil Preparation

Areas to be treated should be free of established weeds. Remove or thoroughly mix trash (weed residues, prunings, etc.) into the soil before applying SURFLAN. The soil should be in good tilth, firm and free of clods at the time of application.

Broadcast Application Rates

For all soil textures, apply 2-2/3 to 3-1/3 pounds per acre.

SURFLAN is not recommended for soils containing more than 5 percent organic matter.

Mixing and Application

Add the recommended amount of SURFLAN to water in the spray tank during the filling operation. Use 20 to 40 gallons of water per acre (broadcast basis). Apply with a properly calibrated, low-pressure herbicide sprayer that will uniformly apply the spray. Check the sprayer daily for proper calibration and uniform application. Provide good bypass or other agitation of the spray suspension in the tank before and during application.

Activation

Sufficient rainfall or sprinkler irrigation to move SURFLAN into the weed seed germination zone is required to activate the herbicide. If weeds begin to emerge, a shallow cultivation (1 to 2 inches) will destroy existing weeds and place SURFLAN in the zone of weed seed germination.

Precaution

Poor weed control may result if directions are not followed. Over-application may result in crop injury or excessive soil residue.

Caution

Please read the SURFLAN label for cautions and precautions prior to application.

(SURFLAN® - oryzalin, Elanco)

ELANCO PRODUCTS COMPANY

A Division of Eli Lilly and Company
Indianapolis, Indiana 46206

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PRODUCT INFORMATION BULLETIN

PREEMERGENCE WEED CONTROL IN BEARING FRUIT AND NUT ORCHARDS
AND BEARING VINEYARDS WITH TANK-MIXED SURFLAN™ 75W AND PRINCIP® 50W

A tank-mix combination of SURFLAN and Prinsep preemergence herbicides controls more annual grasses and broadleaf weeds in several bearing fruit and nut orchards and bearing vineyards than when either product is used alone. The tank-mix is recommended on the following:

Almond	Peach
Apple	Pear
Caneberries	Pecan
Cherry, sweet	Plum
Grape	Walnut
Orange	

Broadleaf weeds and grasses controlled are:

<u>Grasses</u>	<u>Broadleaf Weeds</u>
Barley, little	Carpetweed
Barnyardgrass (watergrass)	Chickweed, common
Bluegrass, annual	Fiddleneck, coast
Brachiaria (signalgrass)	Filaree, redstem
Brome, downy (cheat)	Filaree, whitestem
Crabgrass, large	Fireweed
Crabgrass, smooth	Groundsel, common
Crowfootgrass	Henbit
Cupgrass, southwest	Inavel
Fescue, rattle	Inierteed, prostrate
Foxtail, giant	Lambquarters, common
Foxtail, green	Nilkweed, climbing
Foxtail, robust	Morningglory, annual
Foxtail, yellow	Mustard, black
Goosegrass	Mustard, wild
Hairgrass, silver	Nightshade
Johnsongrass (from seed)	Paintbrush, Flora's
Jungietice	Pigweed, prostrate
Lovegrass, Mexican	Pigweed, redroot
Lovegrass, ornell	Pigweed, rough
Oat, wild	Pigweed, smooth
Panicum, bountop	Pigweed, spiny
Panicum, fall	Pigweed, tumble
Panicum, Texas	Prickly lettuce
Ryegrass, annual	Puncturevine
Sandbar, field	Purslane, common
Sprangletop, red	Pusley, Florida
Wiregrass	Ragweed
Witchgrass	Rocket, London

Broadcast weeds (cont.)

Buckwheat, redroot
Shepherdspurse
Shieldsavers
Smartweed
Spanishneedles
Spurge, prostrate
Tansymustard

Lady's thumb, spotted spurge, teasel (pinkly sida), velvetleaf,
Italian ryegrass, horseweed, common mallow, and annual sowthistle --
Control of these weeds may be erratic, ranging from poor to
excellent depending upon soil temperature, time of germination,
depth of weed seed in the soil, amount and timing of soil moisture.

Soil Preparation

Areas to be treated should be free of established weeds. Remove
or thoroughly mix trash (weed residues, prunings, etc.) into the
soil before applying the tank-mix combination. The soil should
be in good tilth, firm and free of clods at the time of application.

Broadcast Application Rates

SURFLAX - Broadcast SURFLAX 75W in established fruit and nut
orchards and vineyards at a rate of 2-2/3 to 3-1/3
pounds per acre for all soil textures. SURFLAX is
not recommended for soils containing more than 5 percent
organic matter.

Princep - Carefully read and follow the Princep label rates and
directions when the tank-mix combination is used.

The SURFLAX/Princep tank-mix combination is not recommended for use
on soils containing more than 5 percent organic matter. Do not use
on peaches, plums, or sweet cherries grown on sandy or gravelly
soils. Do not use on walnuts grown on sandy soils. Do not use
on orange trees which are under stress from freeze damage for one
year following the freeze to avoid possible injury. Do not use
on bedded orange trees.

Mixing and Application

Fill the spray tank half full of clean water and add the recom-
mended amount of SURFLAX 75W. Mix thoroughly. Follow instructions
on the Princep 80W label for making a slurry of the Princep 80W
in a small amount of water in a separate container, then pour
the slurry into the spray tank and finish filling the tank.
Continuous, vigorous agitation is needed to keep the powders in
suspension. Use 20 to 40 gallons of water per acre (broadcast
basis). Apply with a properly calibrated, low-pressure herbicide
sprayer that will uniformly apply the spray. Check the sprayer
daily for proper calibration and uniform application. Provide

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good bypass or other agitation of the spray suspension in the tank before and during application.

Activation

Sufficient rainfall or sprinkler irrigation to move the tank-mix combination into the weed seed germination zone is required to activate the herbicides. If weeds begin to emerge, a shallow cultivation (1 to 2 inches) will destroy existing weeds and place SURFLAN and Princep in the zone of weed seed germination.

Cultivation

Soil treated with the SURFLAN/Princep tank-mix combination can be shallow cultivated without loss of herbicidal activity. Leveling and furrowing operations after application on walnuts will lessen effectiveness of weed control.

Precaution

Poor weed control may result if directions are not followed. Over-application may result in crop injury or soil residues.

Caution

Read the SURFLAN and Princep labels carefully for recommendations, cautions, and precautions before applying these products.

(SURFLAN® - oryzalin, Elanco)
(Princep® - simazine, CIBA-Geigy Corporation)

ELANCO PRODUCTS COMPANY
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Indianapolis, Indiana 46206

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PRODUCT INFORMATION BULLETIN

PREFERRED WEED CONTROL IS BEARSKIN
FRUIT AND NUT ORCHARDS AND BEARING VINEYARDS
WITH TANK-MIXED SURFLAN™ 75W AND BARKER® 80W

A tank-mix application of SURFLAN™ and Barker pre-emergence herbicides controls more annual grasses and broadleaf weeds in several bearing fruit and nut orchards and bearing vineyards than when either product is applied alone. The tank-mix is recommended on the following:

Grape
Grapefruit
Orange
Pecan
Walnut

Broadleaf weeds and grasses controlled are:

Grasses
Barley, little
Barnyardgrass (watergrass)
Bluegrass, annual
Brachiaria (signalgrass)
Crabgrass, large
Crabgrass, smooth
Crowfootgrass
Fraggrass, southwest
Fescue, talltail
Foxtail, giant
Foxtail, green
Foxtail, robust
Foxtail, yellow
Goosegrass
Johnsongrass (from seed)
Junglerice
Lovegrass, Mexican
Lovegrass, orcutt
Oat, wild
Orchardgrass
Panicum, bermudagrass
Panicum, fall
Panicum, Texas
Peppergrass
Ricegrass, red
Ryegrass, annual

Broadleaf Weeds
Ageratum
Buckwheat, wild
Butterweed
Carpetweed
Chickweed, common
Clover, Mexican
Davallia
Dogfennel
Fiddleneck, coast
Filaree, redstem
Filaree, whitestem
Gromwell
Groundcherry, annual
Groundsel, common
Hawksbeard
Henbit
Horseweed
Knawel
Knotweed, prostrate
Kochia
Kyllinga
Lambsquarters, common
Mallow, common
Marigold
Milkweed, climbing
Morningglory, annual

Grasses (cont.)

Sandbar, field
Sprangletop, red
Velvetleaf
Witchgrass

Broadcast Weeds (cont.)

Mustard, black
Mustard, wild
Palmetto, Florida's
Pigweed, prostrate
Pigweed, redroot
Pigweed, rough
Pigweed, smooth
Pigweed, spiny
Pigweed, tumble
Pimpernelweed
Poblan
Prickly-lettuce
Pusslane, common
Pueraria, Florida
Radish, wild
Rockfoil, garden
Rockpurslane, sedoids
Shepherdspurse
Smartweed
Spurthistle, annual
Spanishneedles
Speedwell, corn
Spurge, prostrate
Spurge, corn
Tansy-mustard
Tobacco, rabbit

Lady'sthumb, spotted spurge, black nightshade, resewed (prickly side), velvetleaf, Italian rye-grass, and prickly lettuce -- Control of these weeds may be erratic, ranging from poor to excellent depending upon soil temperature, time of germination, depth of weed seed in the soil, amount and timing of soil moisture.

Soil Preparation

Areas to be treated should be free of established weeds. Remove or thoroughly mix trash (weed residues, prunings, etc.) into the soil before applying the tank-mix combination. The soil should be in good tilth, firm and free of clods at the time of application.

Broadcast Application Rates

SURFLAN - Broadcast SURFLAN 75W in established fruit and nut orchards and vineyards at a rate of 2-2/3 to 5-1/3 pounds per acre for all soil textures. SURFLAN is not recommended for soils containing more than 5 percent organic matter.

Kermex - Carefully read and follow the Kermex label rates and directions when the tank-mix combination is used.

The SURFLAN/Karmex tank-mix combination is not recommended for use on soils containing more than 3 percent organic matter. Do not use on pecans grown on soils containing less than 6.5 percent organic matter. Do not use on orange trees which are under stress from freeze damage for 6 months following the freeze.

Rising and Application

Fill the spray tank half full with clear water and add the recommended amount of SURFLAN 75W. Mix thoroughly adding water to the spray tank. When the tank is three-fourths full, add the recommended amount of Karmex 80W, mix thoroughly and fill the tank. Vigorous continuous agitation is required to keep the powders in suspension. Use 20 to 40 gallons of water per acre (broadcast basis). Apply with a properly calibrated, low-pressure herbicide sprayer that will uniformly apply the spray. Check the sprayer daily for proper calibration and uniform application. Provide good bypass or other agitation of the spray suspension in the tank before and during application.

Activation

Sufficient rainfall or sprinkler irrigation to move the tank-mix combination into the weed seed germination zone is required to activate the herbicide. A shallow cultivation (1 to 2 inches) will destroy existing weeds and place SURFLAN and Karmex in the zone of weed seed germination.

Precaution

Poor weed control may result if directions are not followed. Over-application may result in crop injury or soil residues.

Caution

Read the SURFLAN and Karmex labels carefully for recommendations, cautions, and precautions before applying these products.

(SURFLAN® - oryzalin, Elanco)
(Karmex® - diuron, E. I. du Pont de Nemours & Company).

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